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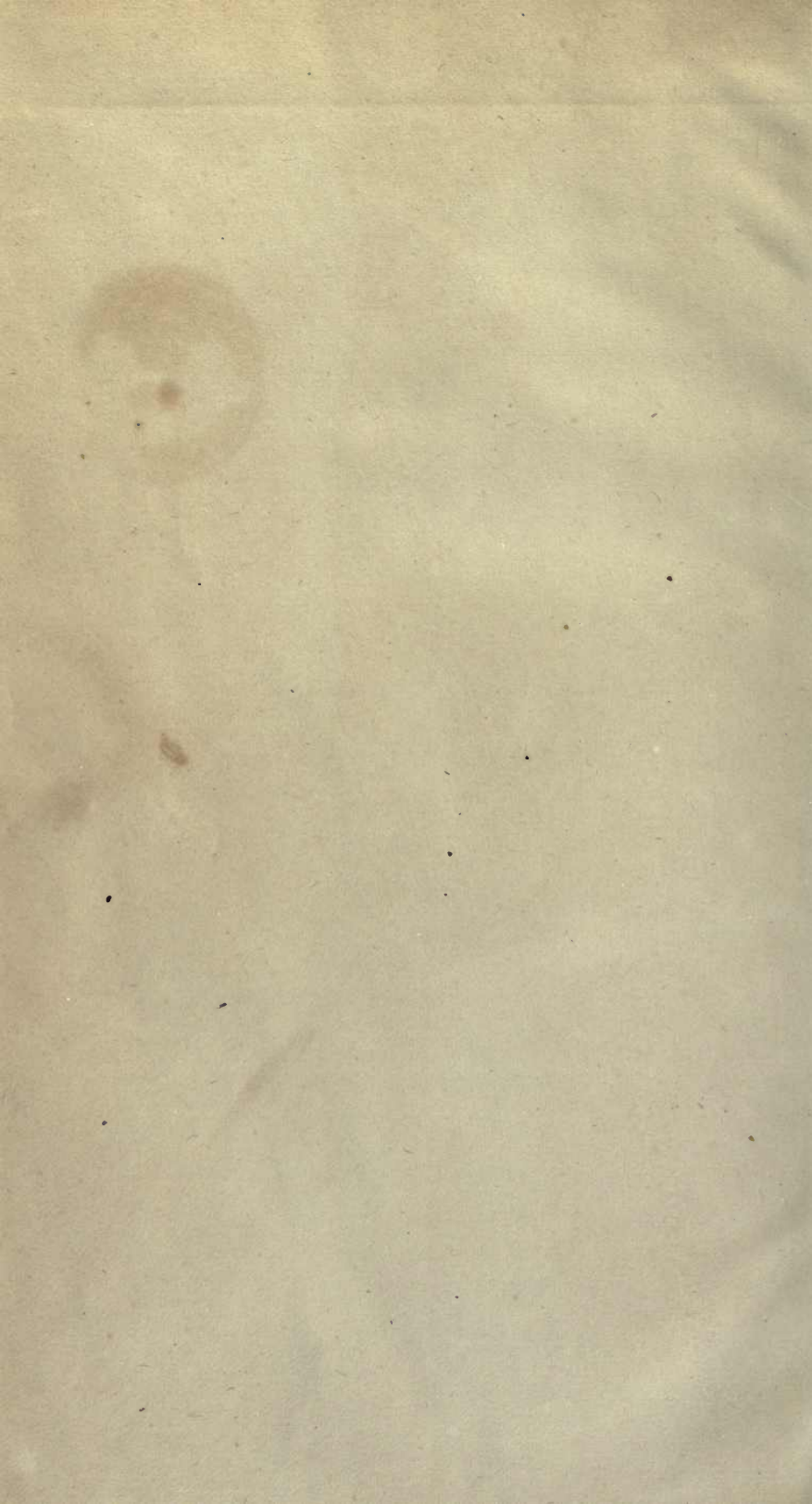
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SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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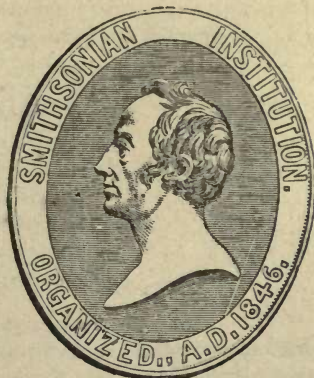
OF

PUBLICATIONS

OF THE

SMITHSONIAN INSTITUTION.

CORRECTED TO JUNE, 1862.



WASHINGTON:  
SMITHSONIAN INSTITUTION.

JUNE, 1862.



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## ADVERTISEMENT.

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THE present catalogue is intended to embrace all the articles published by the Smithsonian Institution since its organization in 1846. For the first few years nothing was issued but pamphlets explanatory of the plan of the Institution, and brief annual reports of the proceedings of the Regents, and it was not until after 1849 that the following regular series were established, viz :—

1st. A quarto series entitled "Smithsonian Contributions to Knowledge," issued in volumes, each embracing one or more separate articles.

2d. An octavo series, entitled "Smithsonian Miscellaneous Collections."

3d. Another octavo series, consisting of the Annual Reports of the Institution to Congress, called "Smithsonian Reports," and printed at the expense of the government.

The Smithsonian Contributions to Knowledge include memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge. The series of Smithsonian Miscellaneous Collections is designed to contain reports on the present state of our knowledge of particular branches of science; instructions for collecting and digesting facts and materials for research; lists and synopses of species of the organic and inorganic world; museum catalogues; reports of explorations; aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense. The position of a work in one or the other of these two series will sometimes depend upon whether the required illustrations can be presented more conveniently in the quarto or the octavo form.

The Annual Reports are presented to Congress, and printed at its expense, copies being given to the Institution. They consist of the reports of the Secretary to the Board of Regents of the operations and condition of the Institution; the reports of committees of the Board; abstracts of lectures delivered before the Institution; extracts from correspondence; original or translated articles relating to the history and progress of science, etc. Over the typography and general mechanical execution, as well as the number of copies, of the Smithsonian Annual Reports the Institution has no control.

In the first experiments of the Smithsonian system of publication, the proper magnitude of the editions necessary to meet the immediate and future demand could not be accurately ascertained. The number of copies of the Contributions then fixed upon, has since been found inadequate, although it was larger than that usually issued by other institutions. The edition has, therefore, been augmented, until at the present time 1000 copies of each article are set aside to be combined into volumes, and an extra number, varying with the probable demand, from 500 to 1500, struck off for separate distribution, and for sale.

Each article is complete in itself, with separate paging, title, and index, and without any necessary relationship to others combined with it in the same volume.

Of the first volume of Smithsonian Contributions, the edition, for reasons already explained, is less than of the succeeding ones, so that complete sets cannot now be always furnished. A considerable number of the earlier articles in octavo, also, are out of print, and cannot be furnished in series for the same reason; they are, therefore, necessarily excluded from the "Smithsonian Miscellaneous Collections." Most of such works, however, have been or will be reproduced in later and improved editions.

The regular series of volumes of Smithsonian Annual Reports begins with 1853, those for previous years being pamphlets now out of print. The essential portion of their contents is, however, given in the above-mentioned volume for 1853, so as to present a complete summary of the history of operations of the Institution from its commencement to the present time.

The rules governing the distribution of the Smithsonian publications are appended. To enable institutions not coming within their provisos, as well as individuals, to procure copies of such as



may be desired, a small number is set aside, and sold by the Institution, or its agents, at the prices affixed, which are intended merely to cover the actual cost of their publication. They may be obtained either directly from the Institution or of its general agents, Messrs. D. Appleton & Co., New York.

JOSEPH HENRY,

*Secretary, S. I.*

SMITHSONIAN INSTITUTION,  
WASHINGTON, June, 1862.

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## RULES OF DISTRIBUTION.

The following rules have been adopted for the distribution of the series of the Smithsonian Contributions, and Miscellaneous Collections:—

1. They are to be presented to all learned societies of the first class which publish Transactions, and give copies of these, in exchange, to the Institution.

2. To all foreign libraries of the first class, provided they give in exchange their catalogues and other publications, or an equivalent from their duplicate volumes.

3. To all the colleges in actual operation in this country, provided they furnish, in return, meteorological observations, catalogues of their libraries and of their students, and all other publications issued by them relative to their organization and history.

4. To all States and Territories, provided they give, in return, copies of all documents published under their authority.

5. To all incorporated public libraries in this country, not included in any of the foregoing classes, now containing more than 10,000 volumes; and to smaller libraries, where a whole State or large district would be otherwise unsupplied.

Institutions devoted exclusively to the promotion of particular branches of knowledge, receive such articles published by the Institution as relate to their objects. Portions of the series are also given to institutions of lesser grade not entitled to the full series, and also to the meteorological correspondents of the Smithsonian Institution.





PUBLICATIONS  
OF THE  
SMITHSONIAN INSTITUTION,

WASHINGTON, D. C.

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CORRECTED TO JUNE, 1862.

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PART I.

PRINTED BY THE INSTITUTION.

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A. ARRANGED IN SERIES.

CONTRIBUTIONS TO KNOWLEDGE,

QUARTO SERIES.

1. Smithsonian Contributions to Knowledge 1848. Vol. I, 4to. pp. 346, with 48 plates and 207 wood-cuts. (Out of print.)

Contains: (1.) **Squier & Davis**, Ancient Mon. Miss. Valley.

26. Smithsonian Contributions to Knowledge. 1851. Vol. II, 4to. pp. 464, and 24 plates. Price \$6.

Contains: (3.) **Walker**, Researches relative to Neptune. (12.) **Lieber**, Laura Bridgeman; (20.) **Bailey**, Soundings U. S. C. Survey; (13.) **Ellet**, Phys. Geog. Miss. Valley; (14.) **Gibbes**, Mosasaurus; (16.) **Agassiz**, Class. Insects; (17.) **Hare**, Expl. Nitre; (23.) **Bailey**, Microsc. Obs. in S. States; (15.) **Squier**, Aboriginal Mon. New York.

The Appendix embraces: (4\*) **Walker**, Eph. Neptune, 1795-1849; (6.) Do. for 1850; (7.) Do. for 1851; (11.) **Downes**, Occultations for 1851.

38. Smithsonian Contributions to Knowledge. 1852. Vol. III, 4to. pp. 564, and 35 plates. Price \$6.

Contains: (35.) **Locke**, Terrest. Magnetism; (36.) **Secchi**, Electric Rheometry; (30.) **Girard**, N. Am. Cot-

toids; (32.) **Harvey**, Marine Algæ N. A.; (22.) **Gray**, Plantæ Wrightianæ, I; (33.) **Davis**, Flood Tide; (37.) **Whittlesey**, Ancient Works in Ohio.

The Appendix embraces: (24.) **Walker**, Eph. Neptune, 1852; (29.) **Downes**, Occultations, 1852.

39. Smithsonian Contributions to Knowledge. 1852. Vol. IV, 4to. pp. 426. Price \$6.

Contains: (40.) **Riggs**, Dakota Grammar and Dictionary.

55. Smithsonian Contributions to Knowledge. 1853. Vol. V, 4to. pp. 538, and 45 plates. Price \$6.

Contains: (44.) **Leidy**, Fauna and Flora of Animals; (41.) **Leidy**, Fossil Ox; (45.) **Wyman**, *Rana pipiens*; (43.) **Harvey**, Marine Algæ N. A. II; (42.) **Gray**, Plantæ Wrightianæ, II.

56. Smithsonian Contributions to Knowledge. 1854. Vol. VI, 4to. pp. 476, and 53 plates. Price \$6.

Contains: (46.) **Torrey**, Plantæ Fremontianæ; (60.) **Torrey**, *Batis maritima*; (61.) **Torrey**, *Darlingtonia Californica*; (50.) **Stimpson**, Marine Invert. Grand Manan; (52.) **Coffin**, Winds of Northern Hemisphere; (58.) **Leidy**, Ancient Fauna Nebraska.

The Appendix embraces: (54.) **Downes**, Occultations, 1853.

76. Smithsonian Contributions to Knowledge. 1855. Vol. VII, 4to. pp. 252, 70 wood-cuts, and 74 plates. Price \$6.

Contains: (59.) **Chappelsmith**, Tornado; (63.) **Bailey**, New Microsc. Organisms; (70.) **Lapham**, Antiquities Wisconsin; (72.) **Leidy**, Extinct Sloths N. A.

The Appendix embraces: (73.) Publications Learned Societies, I.

78. Smithsonian Contributions to Knowledge. 1856. Vol. VIII, 4to. pp. 556, 9 plates, and 27 wood-cuts. Price \$6.

Contains: (71.) **Haven**, Archæology U. S.; (81.) **Olmsted**, Recent Period of Aurora; (80.) **Alvord**, Tangencies Circles and Spheres; (82.) **Jones**, Chem. and Phys. Res.

The Appendix embraces: (84.) **Force**, Record of Auroras; (85.) Publications Learned Societies, II.



92. Smithsonian Contributions to Knowledge. 1857. Vol. IX, 4to. pp. 482, and 22 plates. Price \$6.

Contains: (83.) **Meech**, Intensity Sun's Heat and Light. (90.) **Hitchcock**, Surface Geology; (86.) **Mayer**, Obs. Mex. Archæology; (88.) **Gibbs & Genth**, Ammonia-Cobalt Bases.

The Appendix embraces: (79.) **Runkle**, New Planetary Tables; (94.) **Runkle**, Asteroid Supplement to the same.

99. Smithsonian Contributions to Knowledge. 1858. Vol. X, 4to. pp. 462, and 17 plates. Price \$6.

Contains: (95.) **Harvey**, Marine Algæ N. A., III.; (97.) **Kane**, Magnet. Obs. Arctic Seas; (98.) **Bowen**, Yoruba Language.

111. Smithsonian Contributions to Knowledge. 1859. Vol. XI, 4to. pp. 506, and 23 plates. Price \$6.

Contains: (89.) **Brewer**, N. A. Oology, I.; (100.) **Gilliss**, Solar Eclipse Peru; (113.) **Bache**, Discussion Girard Coll. Obs. I.; (104.) **Kane**, Met. Obs. Arctic Seas; (126.) **Leconte**, Coleoptera Kansas and N. M.; (114.) **Sonntag**, Magnet. Obs. Mexico; (127.) **Loomis**, Storms in Europe and Am.

112. Smithsonian Contributions to Knowledge. 1860. Vol. XII, pp. 540, 3 plates, and 12 wood-cuts. Price \$6.

Contains: (129.) **Kane**, Astron. Obs. Arctic Seas; (119.) **Whittlesey**, Change of Level in Lakes; (103.) **Caswell**, Met. Obs. Providence; (131.) **Smith**, Met. Obs. Arkansas; (135.) **Mitchell**, Venom of Rattlesnake.

150. Smithsonian Contributions to Knowledge. Vol. XIII. (In press.)

*Note.*—The twelve volumes already published and distributed of the Smithsonian Contributions to Knowledge, include, with few exceptions, all the quarto memoirs printed directly by the Institution. Of those not enumerated above, Nos. 130. **Kane**, Tidal Observations in the Arctic Seas; 146. **M'Clintock**, Meteorological Obs. Arctic Seas; 155. **Whittlesey**, Ancient Mining; and 132, 162. **Bache**, Discussion Girard Coll. Obs. II, will form part of Volume XIII. Of the remainder,—(8.) **Downes**, Occultations for 1848; (9.) *Do.* for 1849; (10.) *Do.* for 1850; and (2.) **Owen**, Hints on Public Architecture,—the editions published were too small to incorporate into the series. No. 40\*. *Dacota Grammar* is

an extra edition of portion of No. 40. *Dacota Grammar and Dictionary*; and No. 86. **Harvey**, *Marine Algæ of N. Am.* consists of the three separate parts bound into one.

Nos. 1, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151 refer to the thirteen volumes *Smithsonian Contributions*, containing works separately numbered. Nos. 120. **Hildreth**, *Met. Obs. Ohio*, and 121. **Berlandier**, *Met. Obs. Mexico*, though a long time in preparation, are not yet ready to be printed.

## MISCELLANEOUS COLLECTIONS.

### OCTAVO SERIES.

122. *Smithsonian Miscellaneous Collections*. 1862. Vol. I, 8vo. pp. 732. Price \$3, paper.

Contains: (19.) *Directions for Meteorological Observations*; (87.) **Coffin**, *Psychrometrical Tables*; and (31.) **Guyot**, *Meteorological and Physical Tables*.

123. *Smithsonian Miscellaneous Collections*. 1862. Vol. II, 8vo. pp. 692. Price \$3.

Contains: (27.) **Booth and Morfit**, *Recent Improvements in Chemical Arts*; (115.) *Proceedings Board Regents Smithsonian Institution in relation to the Electro-magnetic Telegraph*; (53.) **Stanley**, *Catal. Portraits N. Am. Indians*; (108.) **Baird**, *Catalogue of N. Amer. Birds*; (49.) **Baird and Girard**, *Catal. North Am. Reptiles—Serpents*; (128.) *Check List Shells N. A.*; (34.) *Directions for Collecting*; (137.) *Circular to Officers H. B. Co.*; (139.) *Instructions for collecting Nests and Eggs; N. Am. Grasshoppers*; and *N. Am. Shells*; (138.) **Morgan**, *Circular respecting Relationship*.

124. *Smithsonian Miscellaneous Collections*. Vol. III, 8vo. pp. 766. Price \$3.

Contains: (102.) **Osten Sacken**, *Catalogue Diptera N. A.*; (118.) **Morris**, *Catal. described Lepidoptera N. A.*; (136.) **Le Conte**, *Classif. Coleoptera, I*; (117.) *Catal. Publications of Societies in Smithsonian Library*.

*Note.*—Of this volume, Nos. 102, 118, and 117 have already been distributed to American institutions, rendering it only necessary to furnish in addition the introductory matter and **Le Conte's Classification of Coleoptera**, as above.



125. Smithsonian Miscellaneous Collections. Vol. IV, 8vo.  
pp. 752. Price \$3.

Contains: (134.) **Hagen**, Synopsis of N. Am. Neuroptera,  
and (133.) **Morris**, Synopsis of N. A. Lepidoptera.

158. Smithsonian Miscellaneous Collections. Vol. V, 8vo.  
(In press.)

This volume will contain of works already printed: (141.) **Loew**, Monographs of Diptera, Part I.; (64.) List of Foreign Correspondents of Smithsonian Institution; and (74.) List of Publications of the Smithsonian Institution, with some others.

*Note.*—The preceding volumes of "Miscellaneous Collections" include all the octavo works printed by the Smithsonian Institution of which copies enough remain on hand to furnish the entire first class list of distribution. The remaining articles have, however, been already supplied to most of its regular correspondents.

As stated in the introduction, a number of the articles mentioned as out of print have been incorporated in later works included in the Miscellaneous Collections and Annual Reports.

The works coming under the head of "Out of Print" are as follows: (18.) **Gould**, Report on Neptune; (101.) **Hill**, Map of Solar Eclipse; (93.) Smithsonian Meteorological Observations for 1855; (68.) **Mitchell**, Vocabulary of Jargon; (62.) **Melsheimer**, Catalogue of Coleoptera; (48.) **Girard**, American Natural History Bibliography; (25.) **Jewett**, Smithsonian Catalogue System; (A.) Proceedings of Regents, 1846; (B.) Report Committee of Organization; (C.) Digest of Acts of Congress; (D.) Address on laying corner-stone; (E.) Explanation Smithsonian's Bequest; (K.) Correspondence on Memoir of Squier and Davis.

The works which are being prepared, or in press, are so marked, consisting of Nos. 140, 142, 143, 144, 145, 148, 153, 154, 156, 160, 161, 163, 165.

No. 164, Museum Miscellanea, does not form part of the Miscellaneous Collections.



## B. SYSTEMATIC LIST OF TITLES.

## MATHEMATICS.

80. **Alvord.**—The Tangencies of Circles and of Spheres. By Benjamin Alvord, Major U. S. Army. January, 1856. 4to. pp. 16, and 9 plates. (S. C. VIII.) Price 50 cents.

## ASTRONOMY.

8. **Downes.**—Occultations visible in the United States during the year 1848. Computed under the direction of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 12.

9. **Downes.**—Occultations visible in the United States during the year 1849. Computed under the direction, and at the expense of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 24.

10. **Downes.**—Occultations visible in the United States during the year 1850. Computed by John Downes, at the expense of the fund appropriated by Congress for a Nautical Almanac, and published by the Smithsonian Institution. 1849. 4to. pp. 26.

These three papers by Mr. Downes were not published in the series of Contributions.

11. **Downes.**—Occultations visible in the United States during the year 1851. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. Oct. 1850. 4to. pp. 26. (S. C. II.) Price 20 cents.

29. **Downes.**—Occultations visible in the United States during the year 1852. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1852. 4to. pp. 34. (S. C. III.) Price 20 cents.

54. **Downes.**—Occultations of Planets and Stars by the Moon during the year 1853. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1853. 4to. pp. 36. (S. C. vi.) Price 20 cents.

3. **Walker.**—Researches relative to the Planet Neptune. By Sears C. Walker, Esq. 1850. 4to. pp. 60. (S. C. ii.) Price 50 cents.

4. **Walker.**—Ephemeris of Neptune for the Opposition of 1848. By Sears C. Walker, Esq. 1849. 4to. pp. 8.

5. **Walker.**—Ephemeris of the Planet Neptune for the date of the Lalande Observations of May 8 and 10, 1795, and for the Opposition of 1846, '47, '48, and '49. By Sears C. Walker, Esq. April, 1849. 4to. pp. 32. (S. C. ii.) Price 20 cents.

6. **Walker.**—Ephemeris of the Planet Neptune for the year 1850. By Sears C. Walker, Esq. April, 1850. 4to. pp. 10. (S. C. ii.) Price 10 cents.

7. **Walker.**—Ephemeris of the Planet Neptune for the year 1851. By Sears C. Walker, Esq. Dec. 1850. 4to. pp. 10. (S. C. ii.) Price 10 cents.

24. **Walker.**—Ephemeris of the Planet Neptune for the year 1852. By Sears C. Walker, Esq. 1853. 4to. pp. 10. (S. C. iii.) Price 10 cents.

18. **Gould.**—On the History of the Discovery of the Planet Neptune. By B. A. Gould, Jr. 1850. 8vo. pp. 56. Price 25 cents.

79. **Runkle.**—New Tables for determining the Values of the Coefficients in the Perturbative Functions of Planetary Motion, which depend upon the ratio of the mean distances. By John D. Runkle, Assistant in the office of the American Ephemeris and Nautical Almanac. Nov. 1856. 4to. pp. 64. (S. C. ix.) Price 50 cents.

94. **Runkle.**—Asteroid Supplement to New Tables for determining the value of  $b_0^{(2)}$  and its derivatives. By John D. Runkle. May, 1857. 4to. pp. 72. (S. C. ix.) Price 50 cents.

100. **Gilliss.**—An Account of the Total Eclipse of the Sun



on September 7, 1858, as observed near Olmos, Peru. By Lieut. J. M. Gilliss. April, 1859. 4to. pp. 24, and one plate. (S. C. XI.) Price 30 cents.

101. **Hill.**—Map of the Solar Eclipse of March 15, 1858. By Rev. Thomas Hill, of Waltham, Mass. 8vo. pp. 8, and one plate. Price 10 cents.

129. **Kane.**—Astronomical Observations in the Arctic Seas. By Elisha Kent Kane, M. D., U. S. N. Made during the second Grinnell Expedition in search of Sir John Franklin, in 1853, 1854, and 1855, at Van Rensselaer Harbor and other points in the vicinity of the Northwest Coast of Greenland. Reduced and discussed by Charles A. Schott, Assistant U. S. Coast Survey. May, 1860. 4to. pp. 56, and 1 plate. (S. C. XII.) Price 75 cents.

33. **Davis.**—The Law of Deposit of the Flood Tide; its Dynamical Action and Office. By Charles Henry Davis, Lieut. U. S. Navy. 1852. 4to. pp. 14. (S. C. III.) Price 10 cents.

130. **Kane.**—Tidal Observations in the Arctic Seas. By Elisha Kent Kane, M. D., U. S. N. Made during the second Grinnell Expedition in search of Sir John Franklin, in 1853, 1854, and 1855. Reduced and discussed by Charles A. Schott, Assistant United States Coast Survey. October, 1860. 4to. pp. 90, and 4 plates. (S. C. XIII.) Price 75 cents.

119. **Whittlesey.**—On Fluctuations of Level in the North American Lakes. By Charles Whittlesey. July, 1860. 4to. pp. 28, and 2 plates. (S. C. XII.) Price 30 cents.

## METEOROLOGY.

52. **Coffin.**—On the Winds of the Northern Hemisphere. By Prof. J. H. Coffin. Nov. 1853. 4to. pp. 200, and 13 plates. (S. C. VI.) Price \$2.

127. **Loomis.**—On Certain Storms in Europe and America, December, 1836. By Elias Loomis, LL.D., Professor of Natural Philosophy in the University of the City of New York. February, 1860. 4to. pp. 28, and 13 plates. (S. C. XI.) Price \$1 25.

59. **Chappelsmith.**—Account of a Tornado near New Harmony, Indiana, April 30, 1852, with a map of the track, diagrams,



and illustrative sketches. By John Chappelsmith. April, 1855. 4to. pp. 12, one map and one plate. (S. C. VII.) Price 30 cents.

103. **Caswell.**—Meteorological Observations made at Providence, R. I., extending over a period of twenty-eight years and a half, from December, 1831, to May, 1860. By Alexis Caswell, Professor of Natural Philosophy and Theology in Brown University, Providence, Rhode Island. October, 1860. 4to. pp. 183. (S. C. XII.) Price \$2 50.

120. **Hildreth.**—Meteorological Observations at Marietta, Ohio. (In preparation.)

121. **Berlandier.**—Meteorological Observations in Mexico. (In preparation.)

131. **Smith.**—Meteorological Observations made near Washington, Ark., extending over a period of twenty years, from 1840 to 1859 inclusive. By Nathan D. Smith, M. D. October, 1860. 4to. pp. 96. (S. C. XII.) Price \$1 25.

104. **Kane.**—Meteorological Observations in the Arctic Seas. By Elisha Kent Kane, M. D., U. S. A. Made during the second Grinnell Expedition in search of Sir John Franklin, in 1853, 1854, and 1855, at Van Rensselaer Harbor and other points on the West Coast of Greenland. Reduced and discussed by Charles A. Schott, Assistant U. S. Coast Survey. November, 1859. 4to. pp. 120. (S. C. XI.) Price 75 cents.

146. **M'Clintock.**—Meteorological Observations in the Arctic Seas. By Sir Francis Leopold M'Clintock, R. N. Made on board the Arctic Searching Yacht "Fox," in Baffin's Bay and Prince Regent's Inlet, in 1857, 1858, and 1859. Reduced and discussed by Charles A. Schott, Assistant U. S. Coast Survey. 4to., with one map. (In press.)

93. Smithsonian Meteorological Observations for the Year 1855. (Printed for examination by the observers.) 1857. 8vo. pp. 114.

Printed merely to enable observers to verify their records, and distributed only to them. The same material is embodied in No. 157, "Results of Meteorological Observations," etc.

157. Results of Meteorological Observations made under the Direction of the United States Patent Office and the Smithsonian Institution, from the year 1854 to 1859 inclusive; being a

Report of the Commissioner of Patents to the Senate, at the 1st Session of the 36th Congress. Vol. I. 1862. 4to. pp. 1270. (Vol. II. is in press.)

This work is published as a Congressional document.

87. **Coffin.**—Psychrometrical Table for Determining the Force of Aqueous Vapor, and the relative Humidity of the Atmosphere from Indications of the Wet and the Dry Bulb Thermometer, Fahrenheit. By James H. Coffin, A. M. 1856. 8vo. pp. 20. (M. C. I.) Price 10 cents.

19. **Guyot.**—Directions for Meteorological Observations, intended for the First Class of Observers. By Arnold Guyot. 1850. 8vo. pp. 40. (Out of print.)

19. Directions for Meteorological Observations and the Registry of Periodical Phenomena. 1860. 8vo. pp. 70. (M. C. I.) Price 25 cents.

31. **Guyot.**—A Collection of Meteorological Tables, with other tables useful in practical meteorology. Prepared by order of the Smithsonian Institution. By Arnold Guyot. 1852. 8vo. pp. 212. Price \$1 25. (Out of print.)

31. **Guyot.**—Tables, Meteorological and Physical, prepared for the Smithsonian Institution. By Arnold Guyot, P. D., LL.D. Second edition, revised and enlarged. 1859. 8vo. pp. 634. (M. C. I.) Price \$2.

83. **Meech.**—On the Relative Intensity of the Heat and Light of the Sun upon different Latitudes of the Earth. By L. W. Meech. November, 1856. 4to. pp. 58, and 6 plates. (S. C. IX.) Price 75 cents.

81. **Olmstead.**—On the recent Secular Period of the Aurora Borealis. By Denison Olmstead, LL.D., Professor of Natural Philosophy and Astronomy in Yale College. May, 1856. 4to. pp. 52. (S. C. VIII.) Price 50 cents.

84. **Force.**—Record of Auroral Phenomena observed in the higher Northern Latitudes. Compiled by Peter Force. July, 1856. 4to. pp. 122. (S. C. VIII.) Price 75 cents.



## TERRESTRIAL MAGNETISM.

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